

IN THE CLAIMS

Please amend the claims as follows:

1. (Original) A position sensor assembly adapted to mount externally to a linkage system, the position sensor assembly comprising:
 - a first sensor housing member adapted for external connection to the linkage system and having a first sensor conduit therein;
 - a second sensor housing member slidably received within the first sensor housing member and having a second sensor conduit therein;
 - a first sensor portion connected with the first sensor housing member; and
 - a second sensor portion connected with the second sensor housing member;wherein:
 - the first sensor housing member is configured and arranged to at least partially enclose the first sensor portion and the second sensor portion; and
 - the position sensor assembly is operable to register a position of the first sensor portion relative to the second sensor portion as a result of cooperation between the first and second sensor portions.
2. (Original) The position sensor assembly of claim 1, wherein:
 - the second sensor housing member is telescopically received within the first sensor housing member.
3. (Original) The position sensor assembly of claim 1, wherein:
 - the first and second sensor housing members comprise first and second tubes, respectively, the second tube being telescopically received within the first tube.
4. (Original) The position sensor assembly of claim 3, wherein the first and second tubes have generally circular cross-sectional shapes.

5. (Original) The position sensor assembly of claim 1, wherein:
the first sensor portion is disposed generally parallel to or coaxially with the second sensor conduit and is configured and arranged to be movable within the second sensor conduit during operation of the position sensor assembly.

6. (Original) The position sensor assembly of claim 1, wherein the first sensor portion is arranged in a telescopically movable configuration relative to the second sensor portion.

7. (Original) The position sensor assembly of claim 1, further comprising a wiper element attached to the first sensor housing member.

8. (Original) The position sensor assembly of claim 1, further comprising:
a module housing member connected to at least one of the first and second sensor housing members; and

a sensor module operably connected to at least one of the first and second sensor portions and at least partially encased within the module housing member.

9. (Original) The position sensor assembly of claim 8, further comprising a connector operably connected to the sensor module and at least partially encased within the module housing member.

10. (Original) A linkage and sensor system comprising:
a first linkage member;
a second linkage member movably connected to the first linkage member;
a position sensor assembly externally connected to the first and second linkage members, the position sensor assembly comprising:

a first sensor housing member externally connected with one of the first and second linkage members and having a first sensor conduit therein;

a second sensor housing member externally connected to the other of the first and second linkage members and slidably received within the first sensor housing member, the second sensor housing member having a second sensor conduit therein;

a first sensor portion connected with the first sensor housing member;
and

a second sensor portion connected with the second sensor housing member;

wherein:

the first sensor housing member is configured and arranged to at least partially enclose the first sensor portion and the second sensor portion; and

the position sensor assembly is operative to register a position of the first linkage member relative to the second linkage member as a result of cooperation between the first and second sensor portions.

11. (Original) The linkage and sensor system of claim 10, wherein:
the second sensor housing member is telescopically received within the first sensor housing member.

12. (Original) The linkage and sensor system of claim 10, wherein:
the first and second sensor housing members comprise first and second tubes, respectively, the second tube being telescopically received within the first tube.

13. (Original) The linkage and sensor system of claim 12, wherein the first and second tubes have generally circular cross-sectional shapes.

14. (Original) The linkage and sensor system of claim 10, wherein:
the first sensor portion is disposed generally parallel to or coaxially with the second sensor conduit and is configured and arranged to be movable within the second sensor conduit during operation of the linkage and sensor system.

15. (Original) The linkage and sensor system of claim 14, further comprising a sensor guide member attached to the first sensor portion between the first sensor portion and the second sensor housing member, the sensor guide member being operative to limit or at least inhibit contact between the first sensor portion and the second sensor housing member.

16. (Original) The linkage and sensor system of claim 10, wherein the first sensor portion is arranged in a telescopically movable configuration relative to the second sensor portion.

17. (Original) The linkage and sensor system of claim 10, further comprising a wiper element attached to the first sensor housing member.

18. (Canceled)

19. (Canceled)

20. (Canceled)

21. (Canceled)

22. (Canceled)

23. (Canceled)

24. (Original) A method of determining the position of a first linkage member relative to a second linkage member, the method comprising:

adapting the first linkage member with a first sensor portion at least partially enclosed by a first sensor housing member, wherein the first sensor portion and the first

sensor housing member are externally disposed relative to the first and second linkage members;

adapting the second linkage member with a second sensor portion that is connected to a second sensor housing member and that is at least partially enclosed by the first sensor housing member, wherein the second sensor portion and the second sensor housing member are externally disposed relative to the first and second linkage members;

moving the first linkage member relative to the second linkage member;

causing the first sensor housing member to enclosingly and slidably receive the second sensor housing member, wherein the first sensor portion is in a telescopically movable relationship relative to the second sensor portion; and

causing the position sensor assembly to register a position of the first linkage member relative to the second linkage member as a result of cooperation between the first and second sensor portions.